



Hurricane Irma Response EPA Region 4

SITUATION REPORT #28

0900 – EST, September 24, 2017 to 0900 – EST, September 25, 2017

ASSESSMENT STATUS SUMMARY

Unified Command approved the Hurricane Irma Vessel Mitigation and Removal Protocol for the State of Florida on September 24. So far, the USCG has identified approximately 839 total vessel targets. An action request is being routed through the State EOC for an ESF-10 Mission Assignment for EPA that will extend the mission and add funding for vessel recovery.

On-Scene Coordinator (OSC) Ben Franco is in Miami to represent the EPA as its Unified Commander in the EPA/USCG/FDEP Command Post. OSC Subash Patel has redeployed from Collier County to Miami to support EPA planning efforts. OSC Matt Huyser joined the Unified Command as the EPA Planning Section Chief on September 24. Four EPA field teams composed of OSCs, Superfund Technical Assessment and Response Team (START) members, and Emergency and Rapid Response Services (ERRS) contractors are being deployed today.

EPA updated the USCG Vessel Assessment Form used for collecting vessel field assessment information and will deploy it today. USCG will have the ability to input this information using a variety of mobile devices.

The Environmental Unit within Unified Command reviewed all data streams associated with identification of targets (i.e., vessels and orphan containers) and has determined that EPA Region 4's Data Management System is the optimum method for managing assessment data. EPA was already tracking USCG vessel data at Sector St. Petersburg, and the system can be expanded to additional USCG Sectors that are covered under the FEMA Mission Assignment.

The U.S. Army Corps of Engineers' (USACE) request for additional ESF-3 support has been fulfilled. The Florida City Water Team relocated to Key Largo and will meet with the Key Largo City Engineer today to discuss the scope of work. The Naples Team met with FEMA to discuss remaining mission requirements and will assess a nonoperational system in Glades County today. Region 4 FAST, the USACE/EPA Naples Water Team, and FDEP will hold a conference call today to finalize the plan to assess the status of 3,561 non-community public water systems.

Tables 10 and 11 (Staffing and Finance) are the only significant updates in the remainder of this report.

I. REGION 4 STATES

All Region 4 State Emergency Operations Centers (EOC), with the exception of Florida, are back to normal operations.

a. FLORIDA

i. Key Questions

What has Florida asked us to do?

Florida has assigned the EPA ESF-10 mission assignments to conduct assessments of targeted facilities, orphan containers assessment and recovery, and hazardous substance and oil pollution response.

How are we leaning forward?

The EPA Region 4 has completed field-assessments of National Priority List (NPL) sites within the State and contacted all Facility Response Plan (FRP) facilities through a combination of call-down and field assessments. The Region has now contacted all 274 Risk Management Plan (RMP) facilities in Florida. No ESF-10 issues were reported.

ii. Florida - Overall Status

All Emergency Support Functions are active. The EPA Region 4 continues to staff the ESF-10 and ESF-3 desks in the State EOC. State-specific information can be found on the Florida Division of Emergency Management webpage: <http://www.floridadisaster.org/index.asp>.

Table 1	
Summary of Hurricane Impacts Throughout Florida	
Category	
SEOC Status	Level 1 (Full activation and fully staffed).
Evacuations	Reported approximately 1,600 in shelters.
Power outages	Approximately 4,600 without power.
Boil Water Advisory	A Boil Water Notice is still in effect across multiple water systems.

ESF-3 (Infrastructure)

ESF-3 has been tasked to provide technical assistance to the USACE for water infrastructure assessment; that mission is ongoing.

ESF-10 (Oil and Hazardous Substance)

The state-wide facility assessment mission has been completed. The orphan container assessment missions in west Florida and Collier County were completed on September 21. Assessment and response operations in the Florida Keys will begin the week of September 24.

Table 2					
Florida - Summary of Priority Facility Sites					
	Drinking Water	WWTP Wastewater Treatment Plant	NPL National Priority List	RMP Risk Management Plan	FRP Facility Response Plan
Total	1,641	386	93	274	122
Assessment Complete	See Water Protection Division Report		93	274	122
Assessment Pending			0	0	0

b. GEORGIA

Georgia reports that its State EOC has returned to normal operations. The Camden, Chatham, Glynn, Liberty, and McIntosh County EOCs remain activated; however, no EPA assistance has been requested.

Tables 3 and 4 provide summary status of facilities and impacts within the state.

Table 3 Georgia - Summary of Priority Facility Sites					
	Drinking Water	WWTP Wastewater Treatment Plant	NPL National Priority List	RMP Risk Management Plan	FRP Facility Response Plan
Total	See Water Protection Division Report		22	275	85
Assessment Complete			22	275 (Per State)	85
Pending Assessment			0	0	0

Table 4 Summary of Hurricane Impacts Throughout Georgia	
Category	
SEOC Status	The Georgia Emergency Management Agency (EMA) is at normal operations.
Evacuations	Evacuation order lifted for all six coastal counties.
Power outages	Approximately 20 people without power. Fluctuations in power outages may not be attributed to Hurricane Irma.
Boil Water Advisory	No updated provided.

c. ALABAMA

No State updates during this operational period. Tables 5 and 6 provide summary status of facilities and impacts within the State.

Table 5 Alabama - Summary of Priority Facility Sites					
	Drinking Water	WWTP Wastewater Treatment Plant	NPL National Priority List	RMP Risk Management Plan	FRP Facility Response Plan
Total	See Water Protection Division Report		17	195	65
Assessment Complete			17	195 (Per State)	64
Pending Assessment			0	0	1

Table 6 Summary of Hurricane Impacts Throughout Alabama	
Category	
SEOC Status	The Alabama EMA is at normal operations.
Evacuations	No evacuations issued
Power outages	No information reported
Boil Water Advisory	No information reported

d. SOUTH CAROLINA

No State updates during this operational period. Tables 7 and 8 provide summary status of facilities and impacts within the State.

Table 7 South Carolina - Summary of Priority Facility Sites					
	Drinking Water	WWTP Wastewater Treatment Plant	NPL National Priority List	RMP Risk Management Plan	FRP Facility Response Plan
Total	See Water Protection Division Report		36	171	38
Assessment Complete			36	171 (Per State)	38
Pending Assessment			0	0	0

Table 8 Summary of Hurricane Impacts Throughout South Carolina	
Category	
SEOC Status	The South Carolina EOC is at normal operations.
Evacuations	No State evacuation orders in effect.
Power outages	No information reported
Boil Water Advisory	No information reported

II. FEDERALLY RECOGNIZED TRIBES

No significant updates were provided by the Region 4 Tribes during this reporting period.

III. EPA REGION 4 PROGRAM REPORT-OUT

a. SUPERFUND

i. National Response Center (NRC) Reports

Table 9 provides a summary of the NRC reports received to date from Hurricane Irma-impacted areas.

Table 9 NRC Report Tracking*						
Location	Hazardous Materials		Oil		Other	
	Open	Closed	Open	Closed	Open	Closed
Florida	0	12	0	165	0	14
Georgia	0	0	0	1	0	0
Alabama	0	0	0	0	0	0
South Carolina	0	0	0	1	0	0

* Open means response status unknown or currently responding.

* Closed means response addressed by owner-operator or Federal, State, or local agency; no EPA assistance requested.

ii. Personnel Deployment Status

The EPA Region 4 Regional Emergency Operations Center (REOC) remains at Level 3 activation. Staffing provided in Table 10 represents all EPA and contractor staff associated with the Hurricane Irma response. See the Incident Management Field Operations Organizational Chart for the overall command structure at the end of the SitRep (Figure 1).

Table 10 Region 4 Staffing (09/24/17 – 0900) Deployment Location				
	EPA R4 Atlanta¹	FEMA Atlanta	Florida SEOC²	Florida Field Operations³
EPA R3	1	0	0	0
EPA R4	20	0	1	6
EPA R5	0	0	0	0
EPA HQ	0	0	0	0
START	2	0	0	0
ERRS	0	0	0	4

1. EPA staff and contractors working directly in the REOC or actively supporting Region 4 REOC operations from a remote location (e.g., normal workstation).
2. EPA R4 On-Scene Coordinator liaison staffing ESF-10 desk at the Florida Emergency Operations Center in Tallahassee, Florida.
3. EPA staff and contractors staffing field assessment teams in various locations in Florida.

iii. FEMA RRCC

A summary of mission assignments is provided in Table 11.

Table 11 FEMA Mission Assignment Status					
Mission Assignment Number	Type of Mission Assignment	Period of Performance	State Cost Share	Funding	Cost to Date
4337DR-FL-EPA-05	Federal Operations Support	September 4 to October 15, 2017	0%	\$90,000	\$32,305
4337DR-FL-EPA-03	Direct Federal Assistance	September 10 to October 3, 2017	0%	\$525,000	\$458,556
4337DR-FL-EPA-04	Disaster	September 4 to October 3, 2017	0%	\$9,000,000	\$2,864,906

iv. RESPONSE ACTIVITIES

Table 12 provides a summary of orphan container collection activities in Collier County, Florida.

Table 12 EPA Orphan Container Collection Summary						
County, FEMA Branch, Division	Propane Tanks	Automobile Batteries	Oil and Gas (gallons)	Miscellaneous Waste (55-gal Drums)	Uncharacterized (55-gal drums)*	Tanks
Collier County (FEMA Branch IV, Division E)	33	30	220	58	13	5

* Waste will be characterized for disposal profile.

b. AIR, PESTICIDE & TOXICS MANAGEMENT DIVISION (APTMD)

i. RMP Facility Status

The Region has contacted all 274 Risk Management Plan (RMP) facilities in Florida. No ESF-10 issues were reported.

ii. Asbestos

State of Florida's Emergency Final Order (OGC No. 17-0989, Page 8, Item 4) waives the 10-day requirement for prior notification for emergency demolition or emergency cleanup of asbestos-containing material resulting from Hurricane Irma.

iii. Summary of Fuel Waivers and No Action Assurance Letters Issued to Date

On September 21, 2017, EPA received two different letters from the State of Florida requesting extensions to two existing fuel waivers and three no action assurance (NAA) letters issued in anticipation of Hurricane Irma. On September 21, 2017, the EPA Office of Enforcement and Compliance Assurance (OECA) issued three NAA letters extending Florida's existing NAAs for truck loading, vapor recovery, and roof landing to October 6, 2017. OECA issued an extension to the waiver for red-dyed diesel fuel to October 6, 2017. EPA Headquarters, with input from the State and Region 4, is working to evaluate and respond to the remaining fuel waiver extension request.

Table 13 summarizes Fuel Waivers and NAA letters for fuels for **mobile sources** (e.g., cars/trucks), and NAA letters for **stationary sources** of pollution (e.g., power plants).

Table 13 Chronology of Waivers and NAAs to Date				
Requesting State	What they requested (Date of request)	Waiver or NAA	EPA Response	Does this supersede a prior waiver or NAA?
MOBILE SOURCE FUELS – EPA ISSUED FUEL WAIVERS AND NAAs				
GA	Reid Vapor Pressure (RVP) and ethanol requirements for gasoline. Requested on August 28, 2017	Waiver	Waiver issued on August 29	No
Covers all R4 States (though not all formally submitted a request)	Low volatility conventional gasoline and Reformulated Gasoline (RFG). Requested on various dates (or not requested at all).	Waiver	Waiver issued on August 30	No
Covers all R4 States (though not all formally submitted a request)	Low volatility conventional gasoline and Reformulated Gasoline (RFG). Requested on various dates (or not requested at all).	Waiver	Waiver issued on August 31	Yes
FL	Red dyed 15 ppm non-road diesel locomotive and marine fuel. Requested on September 5, 2017	Waiver	Waiver issued on September 6	No
Covers all R4 States (though not all formally submitted a request)	Low volatility “summertime” gasoline requirements and RFG. Requested on various dates (or not requested at all).	Waiver	Waiver issued on September 7	Yes
FL	Use of Duke Power’s diesel reserves (non-ULSD) in vehicles and equipment for response to power outages (9/13/17)	NAA	NAA issued on September 13	NA

Table 13 Chronology of Waivers and NAAs to Date				
Requesting State	What they requested (Date of request)	Waiver or NAA	EPA Response	Does this supersede a prior waiver or NAA?
STATIONARY SOURCES – EPA ISSUED NAAs				
FL	Operation of simple-cycle combustion turbines in Monroe County, FL, without adhering to NOX control requirements (9/08/17)	NAA	NAA for violations of NSPS Subpart GG NOX emission standard and permit requirements for simple-cycle combustion turbines in Monroe County, FL (9/08/17) See HERE	No
FL	Fuel Loading Operations for fuel shortages (9/08/17)	NAA	Statewide NAA for vapor recovery requirements for fuel shortages (9/08/17) See HERE	No
FL	Truck Loading Operations for fuel shortages (9/08/17)	NAA	Statewide NAA for Truck Loading Operations for fuel shortages (9/08/17) See HERE	No
FL	Roof Landings for fuel shortages (9/08/17)	NAA	Statewide NAA for Roof Landings at fuel storage tanks for fuel shortages (9/08/17) See HERE	No
FL	Relief from various permit conditions and permit requirements at TECO power plants (9/09/17)	NAA	Relief from various permit conditions and permit requirements at three TECO power plants (9/10/17) See HERE	No
FL	Relief from various permit conditions and permit requirements at Florida power plants state-wide (9/10/17)	NAA	Statewide relief from various permit conditions and permit requirements at Florida power plants (9/10/17) See HERE	Yes (Supersedes TECO)

iv. Air Monitoring Network

Region 4 States are reinstating their routine criteria and toxics air monitoring networks. A summary of the status of the networks is as follows:

1. Florida

- Fully operational and collecting air monitoring data at 45 sites.
- Air monitoring systems are operational and awaiting final quality control and calibrations checks at 27 sites.
- Air monitoring is offline at 26 sites due to power outage.

2. Georgia

No monitoring sites or equipment were damaged. Several sites lost power and were unable to collect data for a few days. All sites are now back online and operational with the exception of the Fort Mountain site, which is without power.

3. Alabama

No significant storm damage to the network, and all monitors are operational.

4. South Carolina

All ten sites are operational and collecting data.

5. North Carolina

All but two sites are back online and collecting data. Air, Pesticides and Toxics Management Division (APTMD) anticipates having the remaining two sites operational by the end of the week.

c. RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)

No updates were provided during this reporting period.

d. SCIENCE AND ECOSYSTEM SUPPORT DIVISION (SED)

The laboratory remains operational. No updates were provided during this reporting period.

e. WATER PROTECTION DIVISION

i. FLORIDA

Water Team Deployment

USACE and EPA Water Protection Division (WPD) continue to assist FDEP in assessing the status of drinking water and wastewater facilities. The Florida City Water Team relocated to Key Largo and will meet with the Key Largo City Engineer today to discuss the scope of work. The Naples Team met with FEMA to discuss remaining mission requirements. The Team will assess a nonoperational system in Glades County today. Region 4 FAST, the USACE/EPA Naples Water Team, and FDEP will hold a conference call today to finalize the plan to assess the status of 3,561 non-community public water systems.

Boil Water Notices (BWNs)¹

Boil water notice or advisories are published on the Florida Department of Health's website (<http://www.floridahealth.gov/environmental-health/drinking-water/boil-water-notices.html>). Currently, the website lists 478 BWNs issued since September 11, of which 305 have been rescinded, resulting in 173 active BWNs.

Tables 14 and 15 summarize community water system status and Publicly Owned Treatment Works (POTW) in Florida as per the last state report.

¹ While a BWN may be issued for an entire system, many are issued for only part of a distribution system (blocks, subdivisions, specific number of houses, etc.) making estimates of the population effected by a BWN inaccurate or unavailable. As such, reporting of populations affected is misleading therefore not reported at this time.

Table 14
Total Number of Community Drinking Water Systems (CWS) and Total Population Served in Florida

	Large CWS (Over 3,300)		Small CWS (under 3,300)	
	# Systems	Population Served	# Systems	Population Served
Operational:	390	19,101,966	1,179	678,066
Partially Operational:	6	188,818	15	16,284
Non Operational:	0	0	6	456
Unknown:	0	0	44	15,747
Totals:	396	19,290,784	1,244	710,553
Boil Water Notices	173 (478 issued – 305 rescinded)			

Comments: Data is compiled from the State of Florida's *StormTracker* system. The inventory of public water systems in *StormTracker* consists of all 1,630 Community Water Systems (CWS) and 11 non-community public water systems regulated by the State. These facilities were identified by Florida as the most critical for operational status determinations following major disasters. For convenience, all 1,641 facilities are reported as "CWS" in this table.

Operational: Facility producing drinking water for greater than 90% of customers under normal operating conditions

Partially Operational: Facility producing drinking water under adverse conditions and/or supplying less than 90% of customers

Non Operational: Facility not producing or supplying drinking water

Unknown: Status of facility unknown at this time

Operational: Facility producing drinking water for greater than 90% of customers under normal operating conditions

Table 15
Total Number of POTWs within Florida

	NPDES Permitted Facilities		State Permits (Non-NPDES)
	POTW	Non-POTW (Industrial)	
Operational:	143	242	1702
Partially Operational:	2	1	41
Non Operational:	0	0	93
Unknown:	0	0	173
Totals:	145	243	2,009

Comments: Data is compiled from the State of Florida's *StormTracker* system. The NPDES universe tracked in *StormTracker* represents a subset of the total inventory of NPDES permitted systems that are identified by the State of Florida as the most critical for operational status determinations following major disasters.

This report shows that 99% of the POTWs are Operational, no change since last report of 99%.

This report shows that 99% of the Non-POTW NPDES Permitted Facilities tracked in *StormTracker* are Operational, no change since last report of 99%.

Operational: Facility & associated collection system is properly conveying, and effectively providing wastewater treatment, in accordance with applicable permit conditions and regulations. (Operating on full or backup generator power.)

Partially Operational: Facility and/or associated collection system is properly conveying and providing wastewater treatment at a compromised capacity, i.e. one or more treatment train components are non-operational, one or more lift stations are non-operational, etc.

Non Operational: Facility and/or associated collection system is not providing wastewater treatment in accordance with applicable permit conditions and regulations

Unknown: Status of facility unknown at this time

ii. GEORGIA

No significant updates were provided during this reporting period.

iii. ALABAMA

No significant updates were provided during this reporting period.

iv. NORTH CAROLINA

No significant updates were provided during this reporting period.

v. SOUTH CAROLINA

No significant updates were provided during this reporting period.

vi. TENNESSEE

No significant updates were provided during this reporting period.

vii. FEDERALLY RECOGNIZED TRIBES

No significant updates were provided during this reporting period.

f. OFFICE OF EXTERNAL AFFAIRS (OExA)

No significant updates were provided during this reporting period.

g. PUBLIC INFORMATION OFFICE (PIO)

EPA is coordinating with the USCG to provide information on Region 4 assessment and orphan container management activities in Miami and the Florida Keys. EPA and USCG are also working to determine possible PIO staffing requirements.

Press Inquiries:

Georgia Public Broadcasting (Ga.) (Cindy Hill) [Received 9/21] – CLOSED - Would like to speak with someone at EPA about the preliminary study on the Superfund sites in Brunswick, Georgia following the impact of Hurricane Irma

Congressional Inquiries:

On 9/20, the EPA Headquarters (HQ) received a letter from Senators Rubio and Nelson urging EPA to continue to work with state and municipal governments to expedite “direct federal assistance and technical assistance” to reduce sewage and untreated wastewater exposure risks. The letter also asked EPA to consider using the Clean Water and Drinking Water State Revolving Funds (SRF) to enhance capacity and resilience of drinking water, stormwater and wastewater systems.

Staff from Congressman Brian Mast (FL-18) contacted EPA HQ to inquire whether EPA field personnel could meet with the Congressman this week to discuss Irma related water quality issues. HQ forwarded the request to the Regional Administrator’s office.

Figure 1



**R4 Hurricane Irma ICS207
Incident Management: Field Operations**

